



Briefing For: 40mm Industry
Day

19-20 May

2004

40 mm TDPS

Review, Clean and 3D





Introduction

Objective: To provide an update of the ongoing technical review of the 40mm Technical Data Packages. The technical reviews will include the generation of Detailed Specifications and have a three-dimensional feature added to the drawings.





TDPs Affected

- High Velocity (MK19 Mod3 GMG)
 - M385A1 Practice
 - M918 Practice ("Flash-Bang")
 - M430A1 High Explosive Dual Purpose (HEDP)
- Low Velocity (M203/M79)
 - M781 Practice ("Orange Dye")
 - M583A1 White Star Parachute ("Illumination")
 - M433 High Explosive Dual Purpose (HEDP)





Outline

A. Review the TDP

1. Drawings
2. Specifications (Standardize Testing)
3. Packaging Requirements

B. Generate DTL Specifications as required.

C. Generate 3D drawings

D. Release by ECP

E. ERR the TDP

F. Continue to improve by ECP





What This Means

- A better TDP set-up for a Systems type contract.
- Up-to-date Detailed Specifications
- Better understanding and improved visualization through 3d.
- Reduced number of ECPs and RFDs and RFWs.
- Better product





Detailed Specifications

- **M433** - Consolidated 9 specifications into 1:
 - M118 Ctg Case
 - M118 & M195 Plug Base Assembly, M118 LAP
 - M118 & M195 Cup Powder Charge
 - Liner for Metal Parts
 - Projectile Metal Parts
 - Spitback Assembly for Metal Parts LAP
- **M918** - Separate Projectile and Cartridge LAP
- **M385** - Separate Projectile and Cartridge LAP
- **M550** Fuze
- **M550** Fuze Escapement
- **M583/M661/M662** - Consolidated 4 specifications into 1:
 - M195 Ctg Case
 - M118 & M195 Cup Powder Charge Assembly, M195 LAP
 - M118 & M195 Plug Base
 - Ctg Case Loading
- **M781** - Completed; Available via Website
- **M169** Case
- **M430A1** - Consolidated 3 specifications into 1:
 - Body Assembly for Metal
 - Spitback Assembly for Metal Parts LAP
 - Liner for Metal Parts
- **M549A1** Fuze



III-L-DTL Major Change

- Replaced MIL-STD-105 (AQL) with MIL-STD-1916
 - Verification (VL) IV for majors & VL II for minor defects
 - Criticals - Automated Acceptance Inspection (AAIE)

Equipment

(AAIE)

- Consolidate Specifications as much as possible
 - Eliminated redundant testing
- New format in accordance with MIL-STD-961E
- Updated Canceled Specifications
- Incorporated Outstanding ECPs





Status

- All changes have been ECPed
- Awaiting CCB board decision
- Approved ECPs will be ERRed
- Any additional changes will go in under a new ECP





Conclusions

- All TDPs were converted to 3D format
- All Specifications are DTL Specs
- If there are errors in the TDPs will be changed by ECP process
- Reviews by services and contractors are ongoing. Changes will be made by ECP





Questions

Arthur R. Pizza

(973) 724-6032

apizza@pica.army.mil

Peter Martin (QA)

(973) 724-8039

pmartin@pica.army.mil

